

Freedom of Information and Privacy Acts

FOIPA# 1056287 and FOIPA#1056307-1

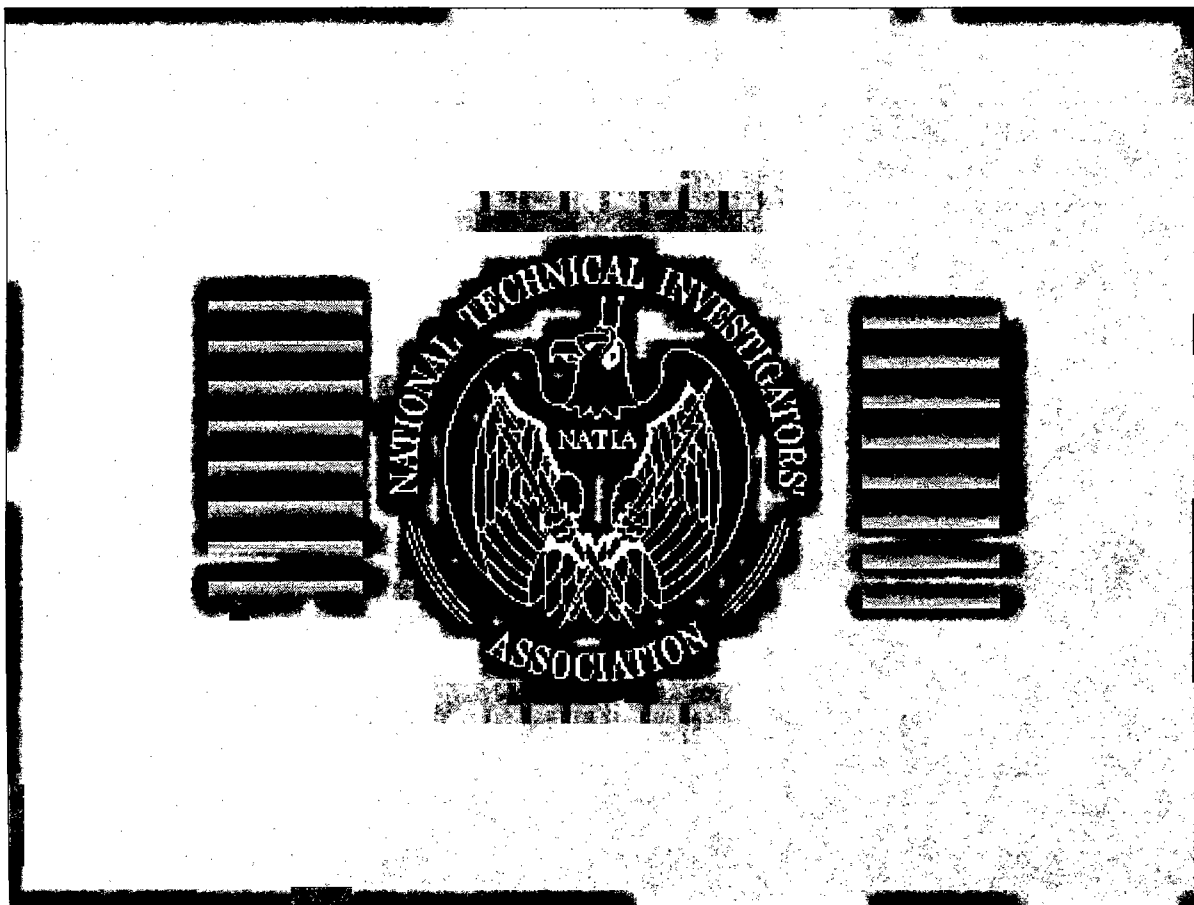
Subjects: DCS-3000 and RED HOOK

File Number: DIVISION CD'S

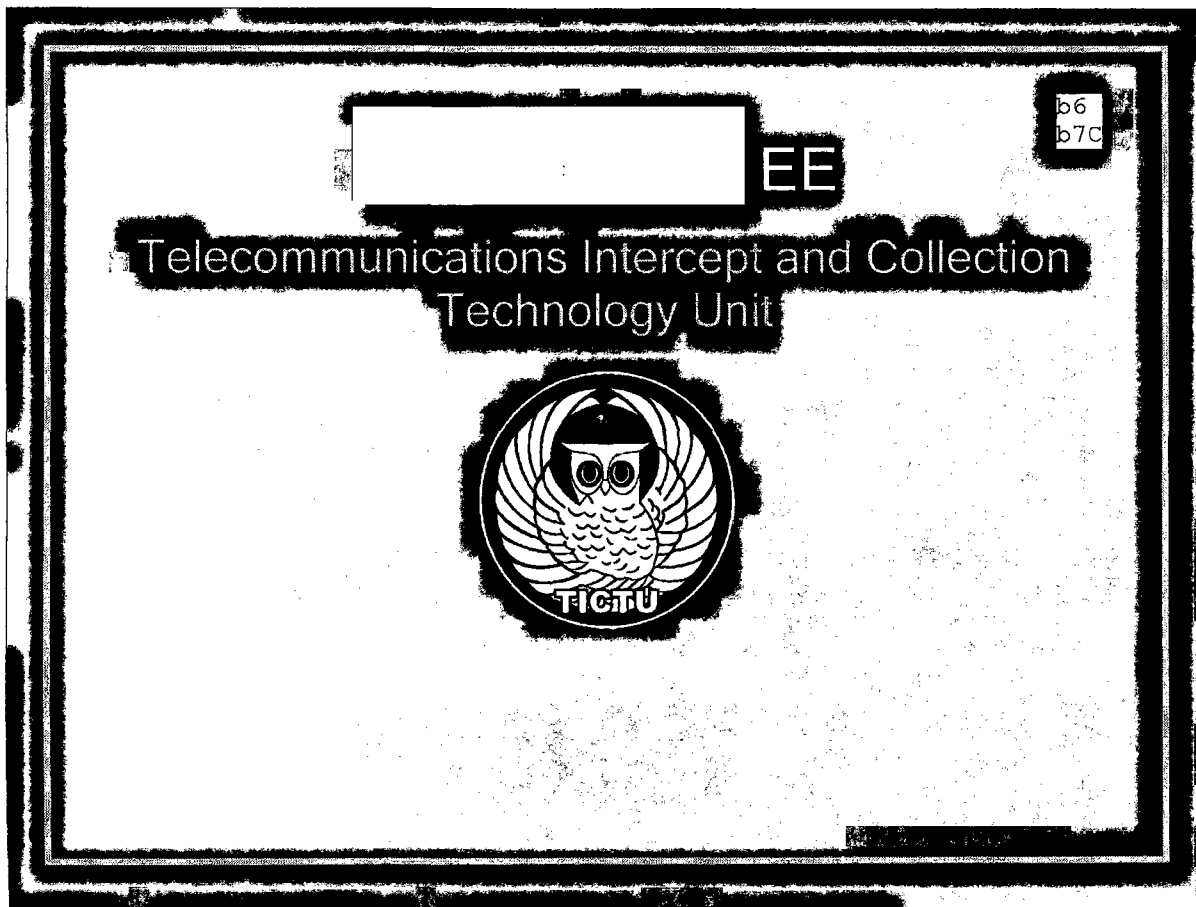
Section: 5



Federal Bureau of Investigation



ALL INFORMATION CONTAINED
HEREIN IS UNCLASSIFIED
DATE 05-29-2007 BY 65179dmh/ksr/maj



pg-1

ALL INFORMATION CONTAINED
HEREIN IS UNCLASSIFIED
DATE 05-29-2007 BY 65179dmh/ksr/maj

event messages

- | | |
|--------------------|----------------------------|
| [1] Answer | [10] TerminationAttempt |
| [2] CCClose | [11] ConnectionTest |
| [3] CCOpen | [12] ConferencePartyChange |
| [4] Change | [13] Connection |
| [5] Origination | [14] ConnectionBreak |
| [6] PacketEnvelope | [15] DialedDigitExtraction |
| [7] Redirection | [16] NetworkSignal |
| [8] Release | [17] SubjectSignal |

b2
b7E

Event messages are communicated through the Call Data Channel (CDC) and provide information related to calls, call participants, network activities and signaling information.

event messages

- [1] Answer
- [2] CCClose
- [3] CCOpen
- [4] Change
- [5] Origination
- [6] PacketEnvelope
- [7] Redirection
- [8] Release
- [9] ServingSystem

event messages

- [10] TerminationAttempt
- [11] ConnectionTest
- [12] ConferencePartyChange
- [13] Connection
- [14] ConnectionBreak
- [15] DialedDigitExtraction
- [16] NetworkSignal
- [17] SubjectSignal

b2
b7E

The event messages are shown as they appear on the "detail" screen of the DCS-3000 client. What is displayed by your equipment may be different.

event messages



event messages

- | | |
|--------------------|----------------------------|
| [1] Answer | [10] TerminationAttempt |
| [2] CCClose | [11] ConnectionTest |
| [3] CCOpen | [12] ConferencePartyChange |
| [4] Change | [13] Connection |
| [5] Origination | [14] ConnectionBreak |
| [6] PacketEnvelope | [15] DialedDigitExtraction |
| [7] Redirection | [16] NetworkSignal |
| [8] Release | [17] SubjectSignal |
| [9] ServingSystem | |

b2
b7E

ServingSystem

Reports a change in the current service provider or service area for terminal or personal mobility.

event messages

event messages

CALL SERVING SYSTEM

Connection:

Nextel Test

Case ID:

Call Number:

Date: 04/30/2004

Time: 07:33:02.870

IAPSystemIdentity:

SystemIdentity:

Location:

b2
b6
b7C
b7E

event messages



event messages

- | | |
|--------------------|----------------------------|
| [1] Answer | [10] TerminationAttempt |
| [2] CCClose | [11] ConnectionTest |
| [3] CCOpen | [12] ConferencePartyChange |
| [4] Change | [13] Connection |
| [5] Origination | [14] ConnectionBreak |
| [6] PacketEnvelope | [15] DialedDigitExtraction |
| [7] Redirection | [16] NetworkSignal |
| [8] Release | [17] SubjectSignal |
| [9] ServingSystem | |

b2
b7E

Origination

Reports authorized connection-oriented call origination attempts or number translations for the intercept subject performed by the Access Function.

event messages



event messages

- | | |
|--------------------|--|
| [1] Answer | [10] TerminationAttempt |
| [2] CCClose | [11] ConnectionTest |
| [3] CCOpen | [12] ConferencePartyChange |
| [4] Change | [13] Connection |
| [5] Origination | [14] ConnectionBreak |
| [6] PacketEnvelope | [15] DialedDigitExtraction ^{b2} |
| [7] Redirection | [16] NetworkSignal ^{b7E} |
| [8] Release | [17] SubjectSignal |
| [9] ServingSystem | |

Answer

Used to report that a connection-oriented call or leg has been answered.

event messages

- | | |
|--------------------|----------------------------|
| [1] Answer | [10] TerminationAttempt |
| [2] CCClose | [11] ConnectionTest |
| [3] CCOpen | [12] ConferencePartyChange |
| [4] Change | [13] Connection |
| [5] Origination | [14] ConnectionBreak |
| [6] PacketEnvelope | [15] DialedDigitExtraction |
| [7] Redirection | [16] NetworkSignal |
| [8] Release | [17] SubjectSignal |
| [9] ServingSystem | |

b2
b7E

CCOpen

Used to report the beginning of a call content delivery on the Call Content Channel (CCC).

event messages

event messages

- | | |
|--------------------|----------------------------|
| [1] Answer | [10] TerminationAttempt |
| [2] CCClose | [11] ConnectionTest |
| [3] CCOpen | [12] ConferencePartyChange |
| [4] Change | [13] Connection |
| [5] Origination | [14] ConnectionBreak |
| [6] PacketEnvelope | [15] DialedDigitExtraction |
| [7] Redirection | [16] NetworkSignal |
| [8] Release | [17] SubjectSignal |
| [9] ServingSystem | |

b2
b7E

CCClose

Used to report the end of the call content delivery on the Call Content Channel (CCC).

event messages

event messages

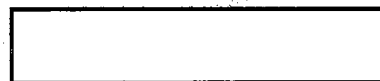
- | | |
|--------------------|-------------------------------|
| [1] Answer | [10] TerminationAttempt |
| [2] CCClose | [11] ConnectionTest |
| [3] CCOpen | [12] ConferencePartyChange |
| [4] Change | [13] Connection |
| [5] Origination | [14] ConnectionBreak |
| [6] PacketEnvelope | [15] DialedDigitExtraction |
| [7] Redirection | [16] NetworkSignal |
| [8] Release | [17] SubjectSignal |
| [9] ServingSystem | |

b2
b7E

DialedDigitExtraction

Reports cut-through digits dialed by the intercept subject.

event messages



event messages

- | | |
|--------------------|----------------------------|
| [1] Answer | [10] TerminationAttempt |
| [2] CCClose | [11] ConnectionTest |
| [3] CCOpen | [12] ConferencePartyChange |
| [4] Change | [13] Connection |
| [5] Origination | [14] ConnectionBreak |
| [6] PacketEnvelope | [15] DialedDigitExtraction |
| [7] Redirection | [16] NetworkSignal |
| [8] Release | [17] SubjectSignal |
| [9] ServingSystem | |

b2
b7E

PacketEnvelope

Delivers intercepted packets to the LEA.

event messages



event messages

- | | |
|--------------------|----------------------------|
| [1] Answer | [10] TerminationAttempt |
| [2] CCClose | [11] ConnectionTest |
| [3] CCOpen | [12] ConferencePartyChange |
| [4] Change | [13] Connection |
| [5] Origination | [14] ConnectionBreak |
| [6] PacketEnvelope | [15] DialedDigitExtraction |
| [7] Redirection | [16] NetworkSignal |
| [8] Release | [17] SubjectSignal |
| [9] ServingSystem | |

b2
b7E

Release

Reports that a connection-oriented call has been released.

event messages



event messages

- | | |
|--------------------|----------------------------|
| [1] Answer | [10] TerminationAttempt |
| [2] CCClose | [11] ConnectionTest |
| [3] CCOpen | [12] ConferencePartyChange |
| [4] Change | [13] Connection |
| [5] Origination | [14] ConnectionBreak |
| [6] PacketEnvelope | [15] DialedDigitExtraction |
| [7] Redirection | [16] NetworkSignal |
| [8] Release | [17] SubjectSignal |
| [9] ServingSystem | |

b2
b7E

TerminationAttempt

Reports a connection-oriented call termination attempt.

event messages



event messages

- | | |
|--------------------|-----------------------------------|
| [1] Answer | [10] TerminationAttempt |
| [2] CCClose | [11] ConnectionTest |
| [3] CCOpen | [12] ConferencePartyChange |
| [4] Change | [13] Connection |
| [5] Origination | [14] ConnectionBreak |
| [6] PacketEnvelope | [15] DialedDigitExtraction |
| [7] Redirection | [16] NetworkSignal ^{b2} |
| [8] Release | [17] SubjectSignal ^{b7E} |
| [9] ServingSystem | |

Redirection

Indicates that in incoming connection-oriented call attempt, originally directed toward a subject, has been redirected by the subject.

event messages



event messages

- | | |
|--------------------|----------------------------|
| [1] Answer | [10] TerminationAttempt |
| [2] CCClose | [11] ConnectionTest |
| [3] CCOpen | [12] ConferencePartyChange |
| [4] Change | [13] Connection |
| [5] Origination | [14] ConnectionBreak |
| [6] PacketEnvelope | [15] DialedDigitExtraction |
| [7] Redirection | [16] NetworkSignal |
| [8] Release | [17] SubjectSignal |
| [9] ServingSystem | |

b2
b7E

Change

Used to report merging or splitting of connection-oriented call identities.

event messages



event messages

- | | |
|--------------------|--|
| [1] Answer | [10] TerminationAttempt |
| [2] CCClose | [11] ConnectionTest |
| [3] CCOpen | [12] ConferencePartyChange |
| [4] Change | [13] Connection |
| [5] Origination | [14] ConnectionBreak |
| [6] PacketEnvelope | [15] DialedDigitExtraction ^{b2} |
| [7] Redirection | [16] NetworkSignal ^{b7E} |
| [8] Release | [17] SubjectSignal |
| [9] ServingSystem | |

ConferencePartyChange

Reports a change in the parties to a subject initiated conference call communication.

event messages

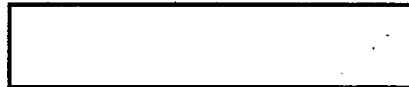
event messages

- | | |
|--------------------|---|
| [1] Answer | [10] TerminationAttempt |
| [2] CCClose | [11] ConnectionTest |
| [3] CCOpen | [12] ConferencePartyChange |
| [4] Change | [13] Connection |
| [5] Origination | [14] ConnectionBreak |
| [6] PacketEnvelope | [15] DialedDigitExtract ^{b2 n} |
| [7] Redirection | [16] NetworkSignal ^{b7E} |
| [8] Release | [17] SubjectSignal |
| [9] ServingSystem | |

Connection

Reports parties to a call under surveillance.

event messages



event messages

- | | |
|--------------------|----------------------------|
| [1] Answer | [10] TerminationAttempt |
| [2] CCClose | [11] ConnectionTest |
| [3] CCOpen | [12] ConferencePartyChange |
| [4] Change | [13] Connection |
| [5] Origination | [14] ConnectionBreak |
| [6] PacketEnvelope | [15] DialedDigitExtract |
| [7] Redirection | [16] NetworkSignal |
| [8] Release | [17] SubjectSignal |
| [9] ServingSystem | |

b2
b7E

ConnectionBreak

Reports parties removed from a call under surveillance.

event messages



event messages

- | | |
|--------------------|---------------------------------------|
| [1] Answer | [10] TerminationAttempt |
| [2] CCClose | [11] ConnectionTest |
| [3] CCOpen | [12] ConferencePartyChange |
| [4] Change | [13] Connection |
| [5] Origination | [14] ConnectionBreak |
| [6] PacketEnvelope | [15] DialedDigitExtract ^{b2} |
| [7] Redirection | [16] NetworkSignal ^{b7E} |
| [8] Release | [17] SubjectSignal |
| [9] ServingSystem | |

NetworkSignal

Reports network signals sent to the intercept subject.

event messages

event messages

- | | |
|--------------------|---------------------------------------|
| [1] Answer | [10] TerminationAttempt |
| [2] CCClose | [11] ConnectionTest |
| [3] CCOpen | [12] ConferencePartyChange |
| [4] Change | [13] Connection |
| [5] Origination | [14] ConnectionBreak |
| [6] PacketEnvelope | [15] DialedDigitExtract ^{b2} |
| [7] Redirection | [16] NetworkSignal ^{b7E} |
| [8] Release | [17] SubjectSignal |
| [9] ServingSystem | |

SubjectSignal

Reports all incoming signaling input by the intercept subject.

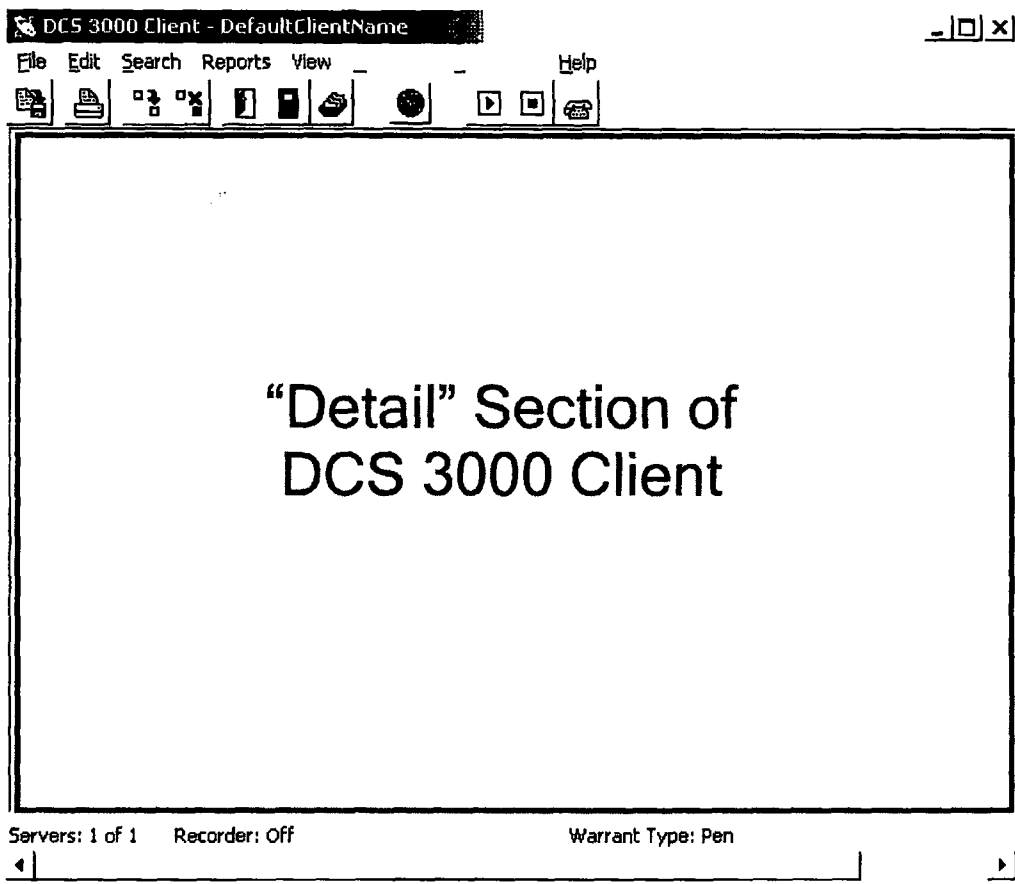
event messages

- | | |
|--------------------|---------------------------------------|
| [1] Answer | [10] TerminationAttempt |
| [2] CCClose | [11] ConnectionTest |
| [3] CCOpen | [12] ConferencePartyChange |
| [4] Change | [13] Connection |
| [5] Origination | [14] ConnectionBreak |
| [6] PacketEnvelope | [15] DialedDigitExtract ^{b2} |
| [7] Redirection | [16] NetworkSignal ^{b7E} |
| [8] Release | [17] SubjectSignal |
| [9] ServingSystem | |

ConnectionTest

Optional message that may be used to verify the connectivity of the Call Data Channel (CDC). This message may be sent during the provisioning process or at any other time.

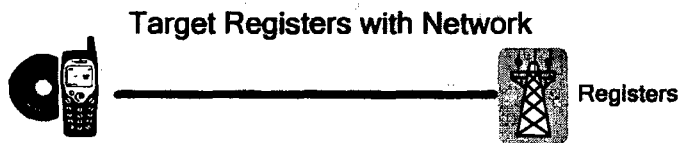
event messages



b2
b7E

event messages

Target Registration



b2
b7E

event messages

DCS 3000 Client - DefaultClientName

File Edit Search Reports View Help

CALL SERVING SYSTEM

Connection: [redacted] Test

Case ID: [redacted]

Call Number:

Date: 04/30/2004 Time: 07:33:02 870

IAPSystemIdentity: [redacted]

SystemIdentity:

Location:

b2
b7E

b2
b6
b7C
b7E

Servers: 1 of 1 Recorder: Off Warrant Type: Pen

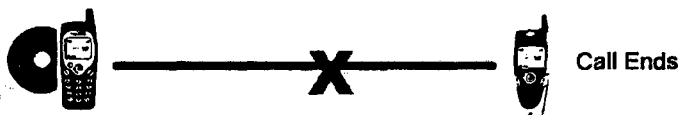
event messages

1: Outgoing Call - No Answer

Target Initiates Outgoing Call to Associate



Target Disconnects



b2
b7E

event messages

DCS 3000 Client - DefaultClientName

File Edit Search Reports View Help

CALL ORCEONETION

Connection: [redacted] Test

Case ID: [redacted]

Dated 04/30/2004 Time [redacted]

CASystemIdentity: [redacted]

Call Number: 9828327

Rec 06/30/2004 Time 3823:34:50.340

Location: L:167 C:60396 MCC/MNC:31601

CALLING LEASE

CASystemIdentity: [redacted]

Transmission Input: [redacted]

Call Number: 0276327

DATA: CCOPEN/2004 Time: 07:35:05.820

Connection Area Code: [redacted] T68896 MCC/MNC:31601

CASystemIdentity: [redacted]

Date: 04/30/2004 Time: 07:34:50.400

CCOPEN and CCCLOSE messages apply to call content and should not appear if the target has been provisioned solely for Pen Register surveillance.

Servers: 1 of 1 Recorder: Off

b2
b6
b7C
b7E

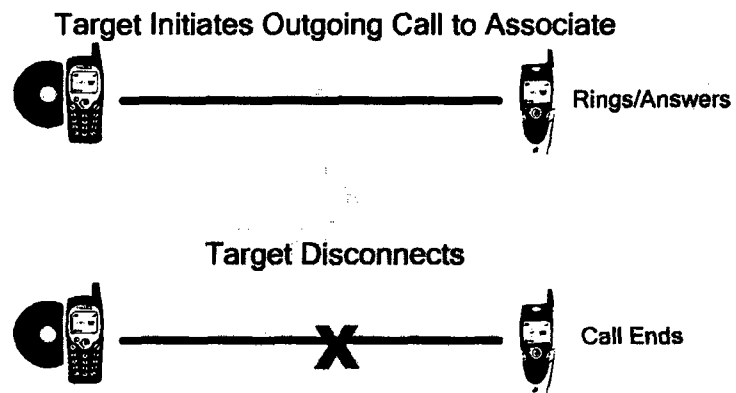
b2
b6
b7C
b7E

b2
b7E

b2
b7E

event messages

2: Outgoing Call - Answered



b2
b7E

event messages

DCS 3000 Client - DefaultClientName

File Edit Search Reports View Help

CALL ANSWERATION

Connection: [redacted] Test

Case ID: [redacted]

CallerNumber: [redacted]

Date: 04/30/2004 Time: [redacted]

CallNumber: 0276329

CallSys: 04/30/2004 Time: [redacted] b2 b7E

Location: L:167 C:60396 MCC/MNC:31601

CALLING CESS

CARSystemIdentity: [redacted]

TransMissionInput: [redacted]

Date: 04/30/2004 Time: 07:36:34.300 b2 b6 b7C b7E

CARSystemIdentity: [redacted]

SepNetCC: [redacted] Test

SepNetCCC: [redacted]

Date: 04/30/2004 Time: 07:35:36.630

CARD RELEASE

CARSystemIdentity: [redacted]

SepNetCCC: [redacted]

SepNetCC: 0276329

Date: 04/30/2004 Time: 07:36:34.300

Location Area Code: L:167 C:60396 MCC/MNC:31601

Servers: 1 of 1 Recorder: Off

event messages

3: Incoming Call - No Answer

Target Receives Incoming Call from Associate



Associate Disconnects



b2
b7E

event messages

DCS 3000 Client - DefaultClientName

File Edit Search Reports View Help

CALLING INFORMATION ATTEMPT

Original Called Number: [redacted] Test

Case ID/Redirecting Number: [redacted]

Called On: 04/30/2004 Time: [redacted]

Calling Party Reason: [redacted]

Supplementary Notif: 9826331

Date: 04/30/2004 Time: 3827:36:51.170

Called ESN:

Calling Party Identity: [redacted]

Connection: Nextel Test

NETWORK: SIGNAL

Date: 04/30/2004 Time: [redacted]

Date: 04/30/2004 Time: [redacted]

Calling Party Identity: [redacted] ACC/MNC: 31601

Supplementary Notif: Time: [redacted]

System Identity: [redacted]

Calling Party ID: 0276331

Audible Signal:

General Display:

Called Number:

Calling Number: [redacted]

Servers: 1 of 1 Recorder: Off

b2
b7E
b2
b6
b7C
b7E

4: Incoming Call - Answered

Target Receives Incoming Call from Associate



Associate Disconnects



b2
b7E

event messages

DCS 3000 Client - DefaultClientName

File Edit Search Reports View Help

CallName: [REDACTED]

OriginatingNumber: [REDACTED]

Date: 08/22/2004 Number: [REDACTED]

RedactedName: [REDACTED] MCC/MNC: 31601

CallType: 02859821420

Makeag4W22/2264NotTime: 07:37:25.650

CalledCEUSE

CallSystemIdentity: [REDACTED] 5T420

CALL TO OPEN

NUMBER: 0204 Time: [REDACTED]

CallSystemIdentity: [REDACTED]

September 06/2004 Time: [REDACTED]

CallType: [REDACTED]

CallSystemIdentity: [REDACTED]

ReportSignal: [REDACTED] Test

EndCallSignal: [REDACTED]

CallNumberDisplay: 0276332

Date: 08/22/2004 Time: 07:38:22.940

CallNumberCode: [REDACTED] MCC/MNC: 31601

IAPSystemIdentity: [REDACTED]

Servers: 1 of 1 Recorder: Off

b2
b6
b7C
b2
b7E

5: Incoming Call to Voicemail

Target Receives Incoming Call from Associate



Unanswered Call Forwarded to Voicemail



Associate Disconnects



b2
b6
b7C
b7E

6: Outgoing Call - Answered Incoming Call - Unanswered

Target Initiates Outgoing Call to Associate 1



Target Receives Incoming Call from Associate 2



b2
b7E

1000 JOURNAL OF DOCUMENTATION

[illegible]

7: Outgoing Call - Answered

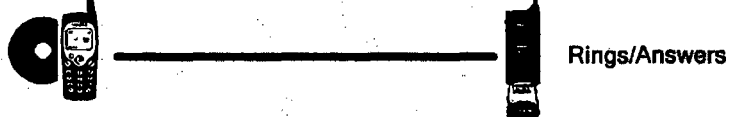
2nd Outgoing Call - Answered

(second call ends before first)

Target Initiates Outgoing Call to Associate 1



Target Initiates Outgoing Call to Associate 2



b2
b7E

1

b2
b6
b7C
b7E

8: Outgoing Call - Answered 2nd Outgoing Call - Answered Conference Both Calls

Target Initiates Outgoing Call to Associate 1

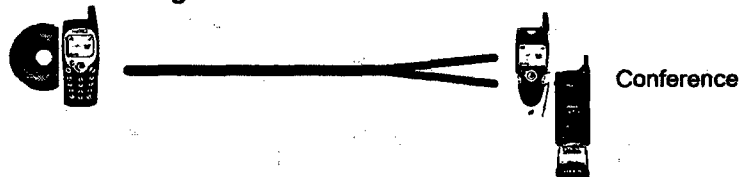


Target Initiates Outgoing Call to Associate 2



b2
b7E

Target Conferences Both Calls



event messages

DCS 3000 Client - DefaultClientName

File Edit Search Reports View Help

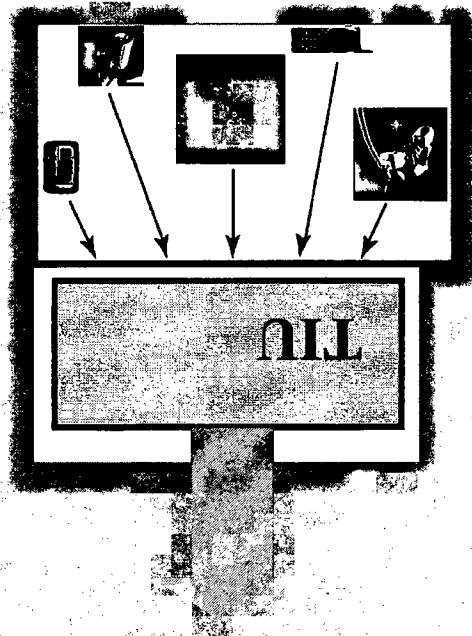
Result: Error: Count: Number: Time: ...

Servers: 1 of 1 Recorder: Off

Servers: 1 of 1 Recorder: Off

TICTU West Coast Conference

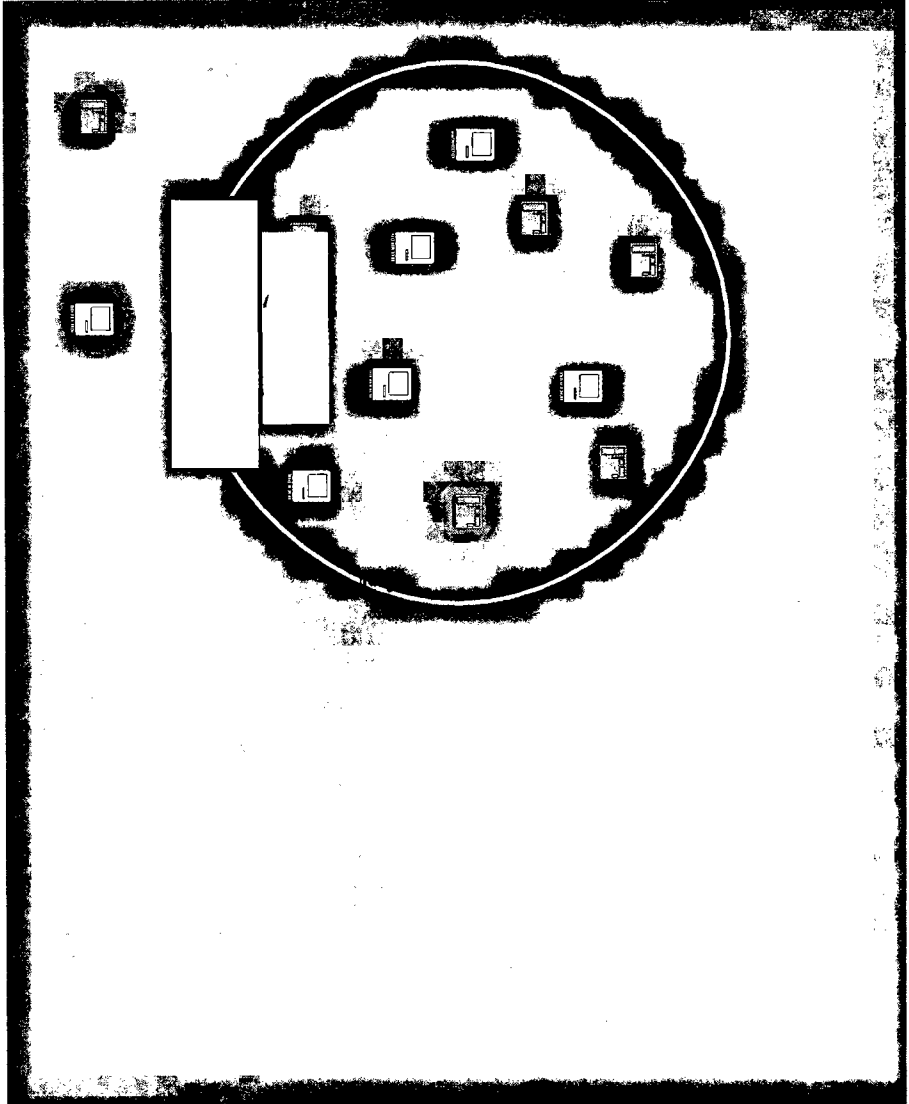
TICT



pg-1

ALL INFORMATION CONTAINED
HEREIN IS UNCLASSIFIED
DATE 05-29-2007 BY 65179dmd/xsr/maj

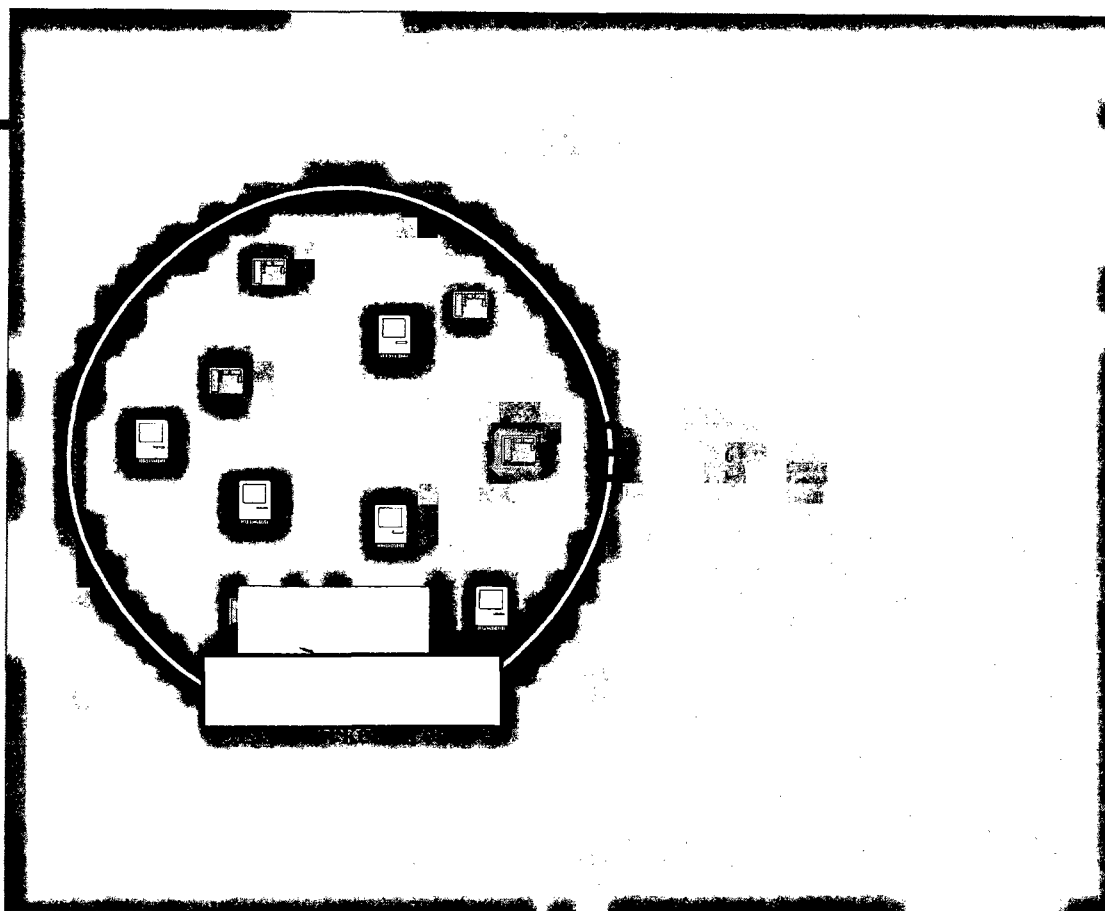
TICTU West Coast Conference



pg-2

b2
b7E

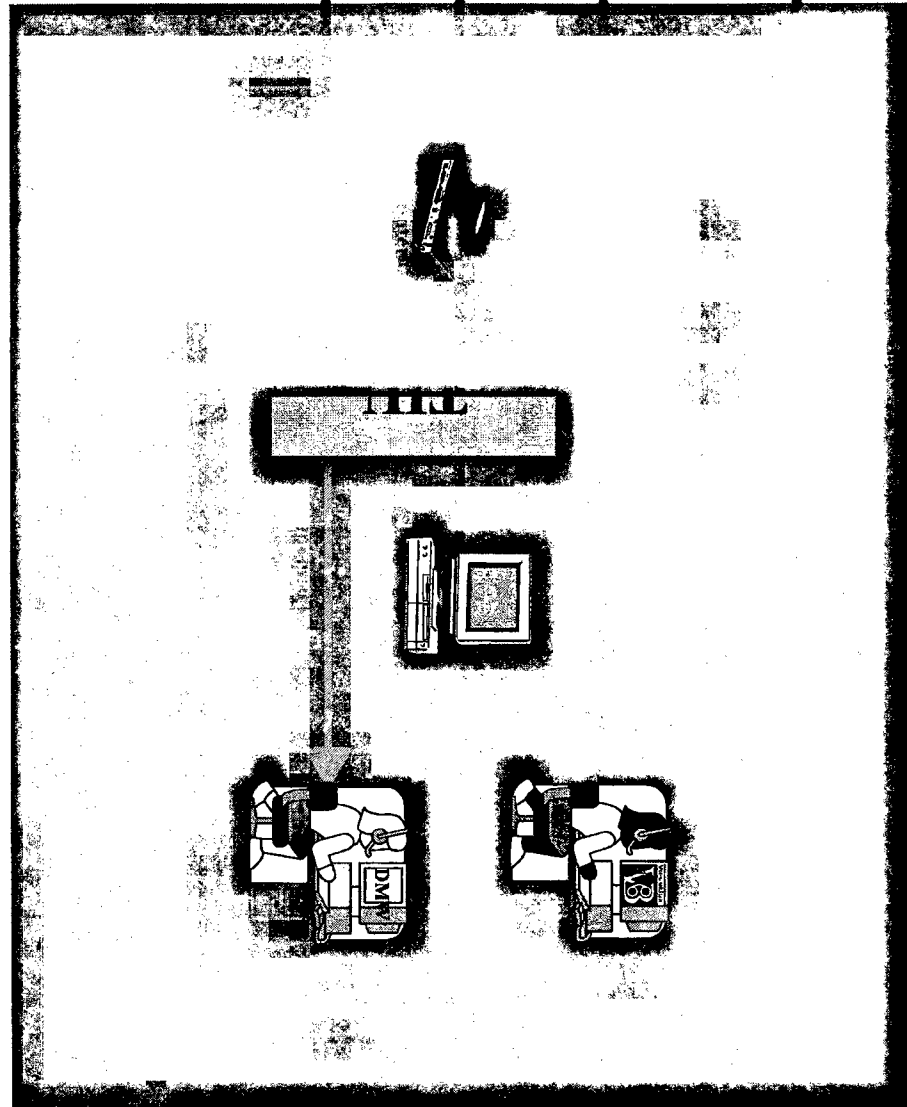
TICTU West Coast Conference



b2
b7E

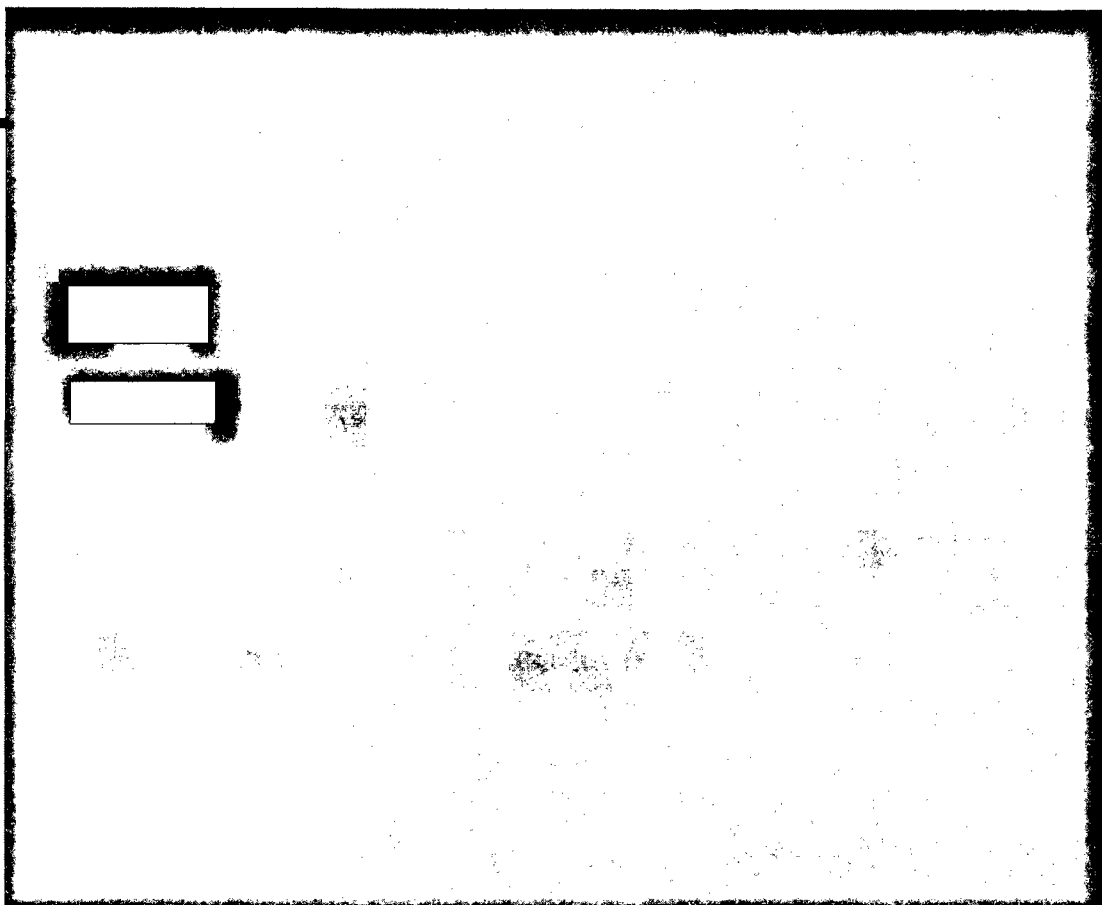
TICTU West Coast Conference

pg-4



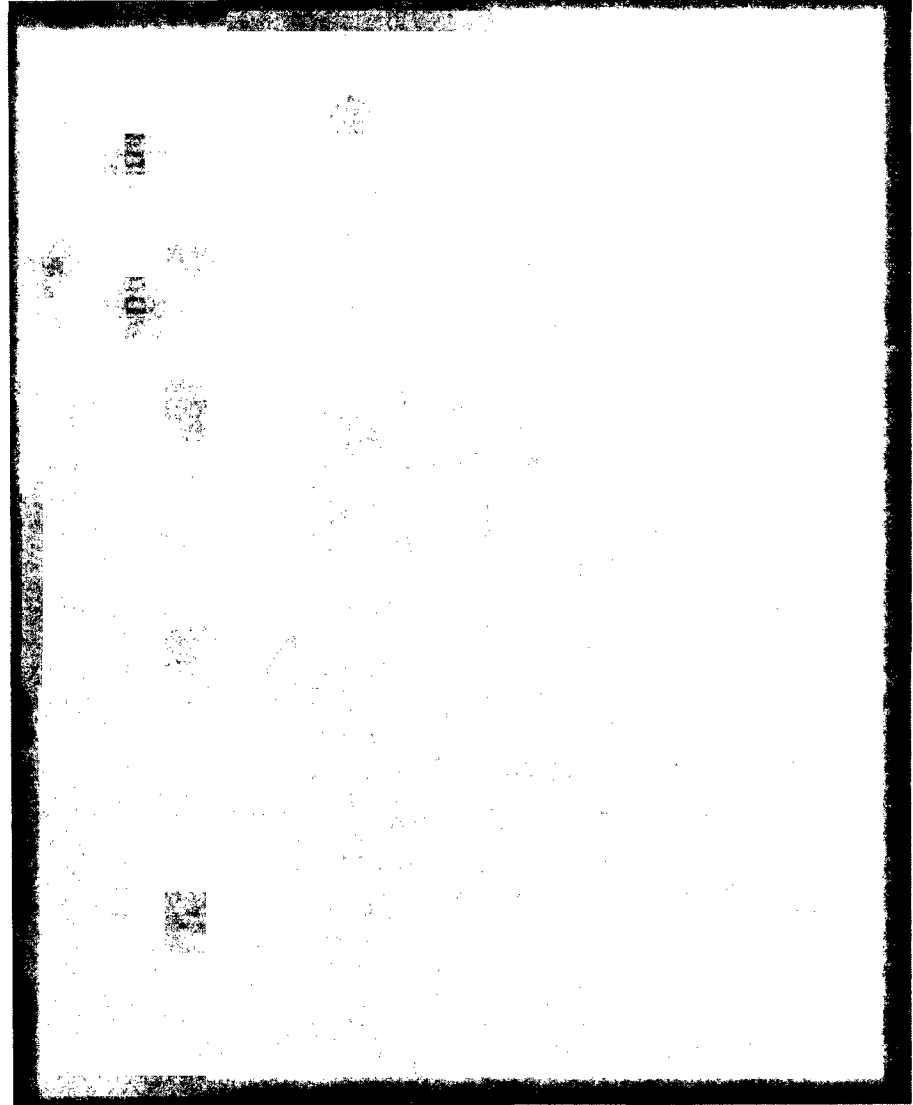
b2
b7E

TICTU West Coast Conference

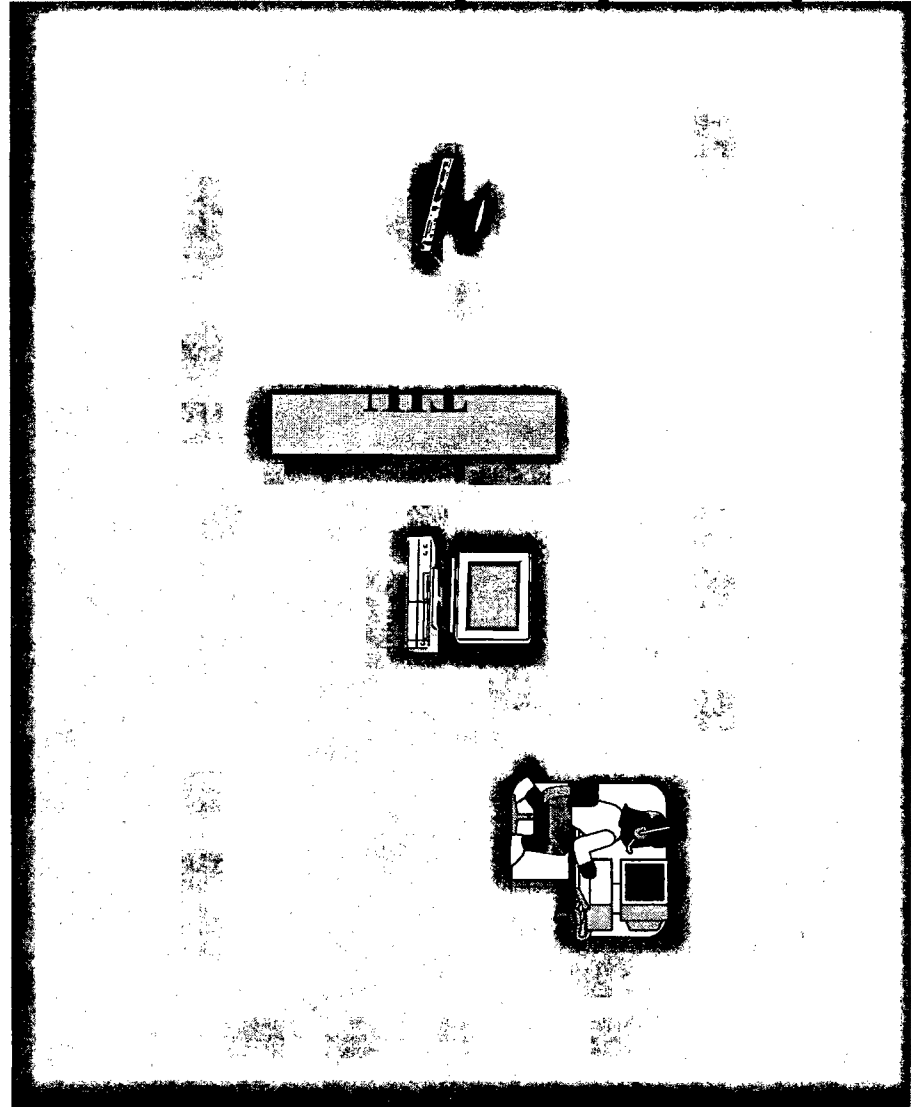


TICTU West Coast Conference

pg-6

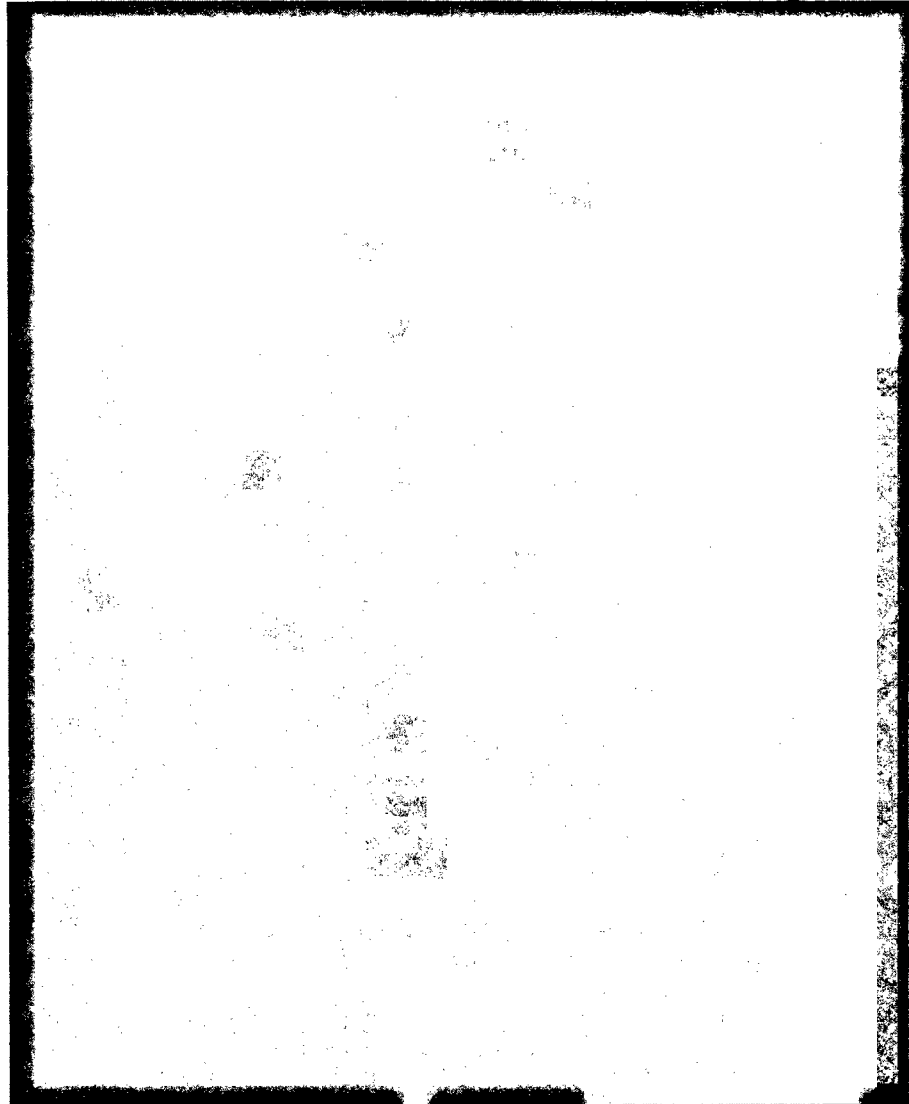


TICTU West Coast Conference



pg-7

TICTU West Coast Conference

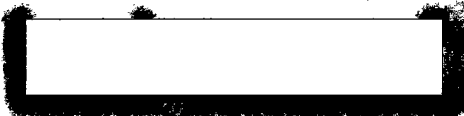


pg-8



Switch Based Intercepts Course

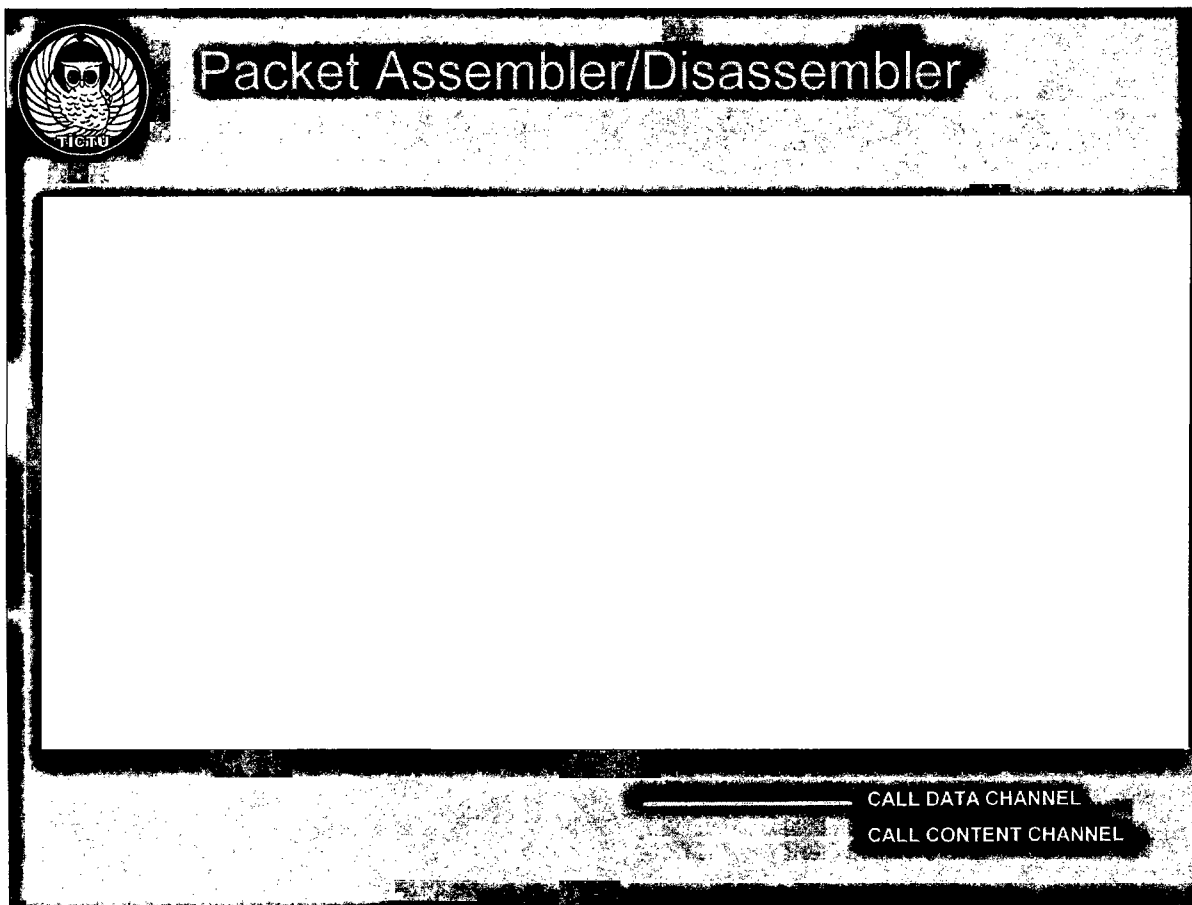
Packet
Assembler/Disassembler



b6
b7C

pg-1

ALL INFORMATION CONTAINED
HEREIN IS UNCLASSIFIED
DATE 05-29-2007 BY 65179dmh/ksr/maj



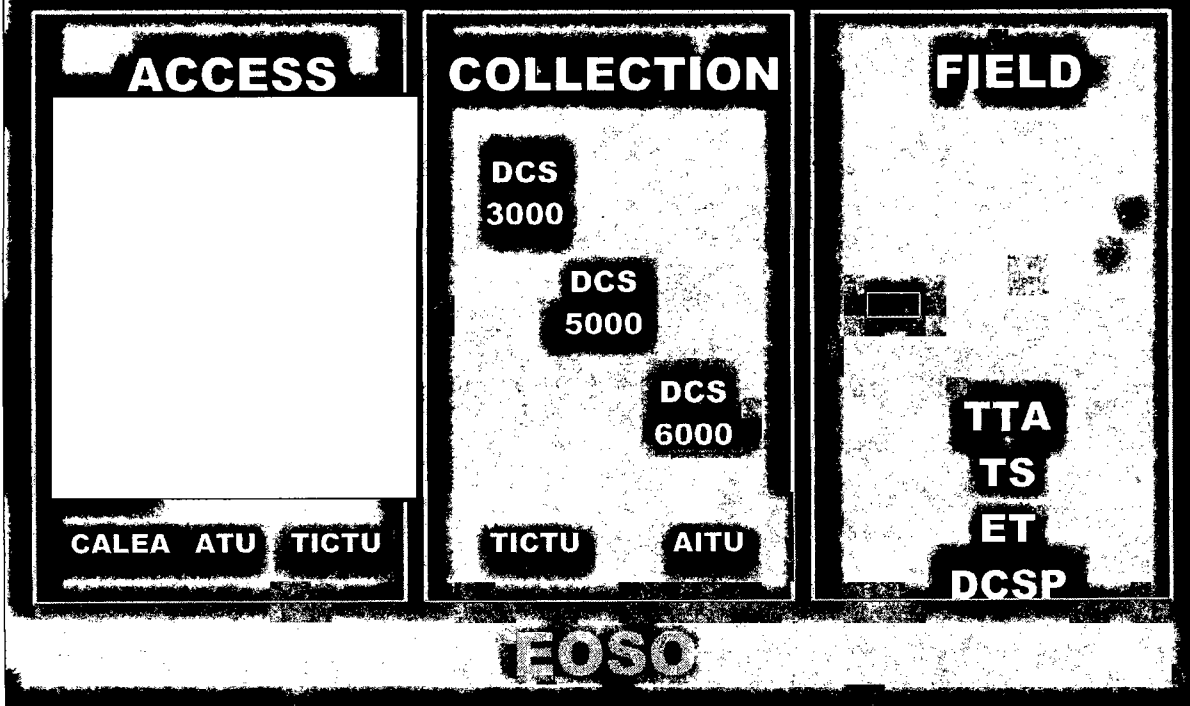


pg-1

ALL INFORMATION CONTAINED
HEREIN IS UNCLASSIFIED
DATE 06-05-2007 BY 65179DMAH/KSR/MAJ



Ensuring ELSUR Capability



b2
b7E



EL SUR TOUR

YESTERDAY

TODAY

TOMORROW

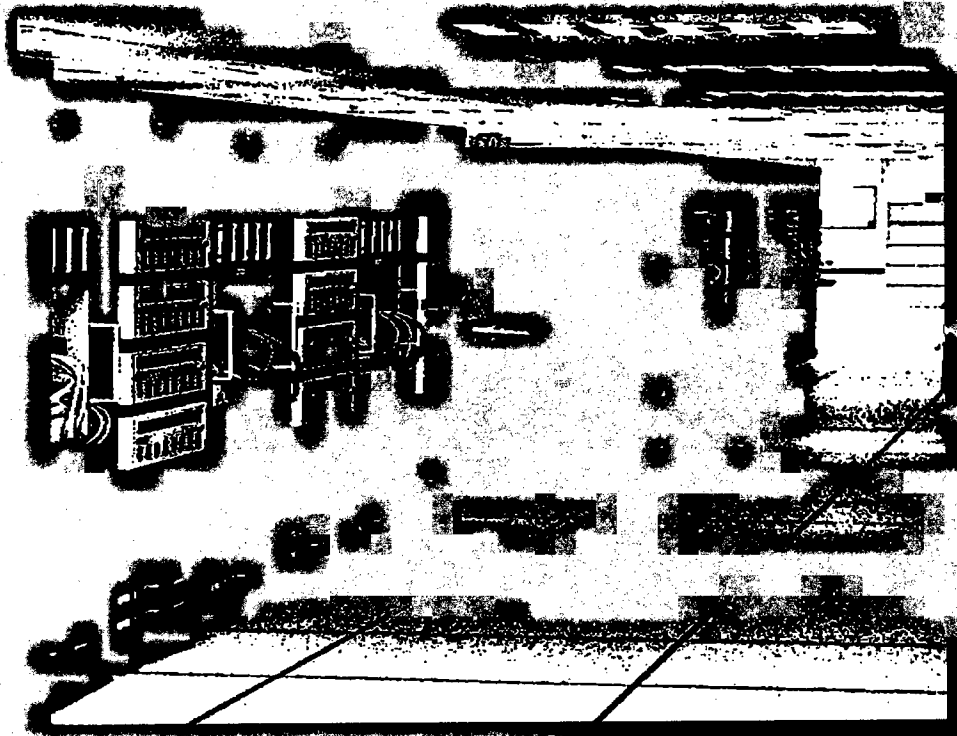


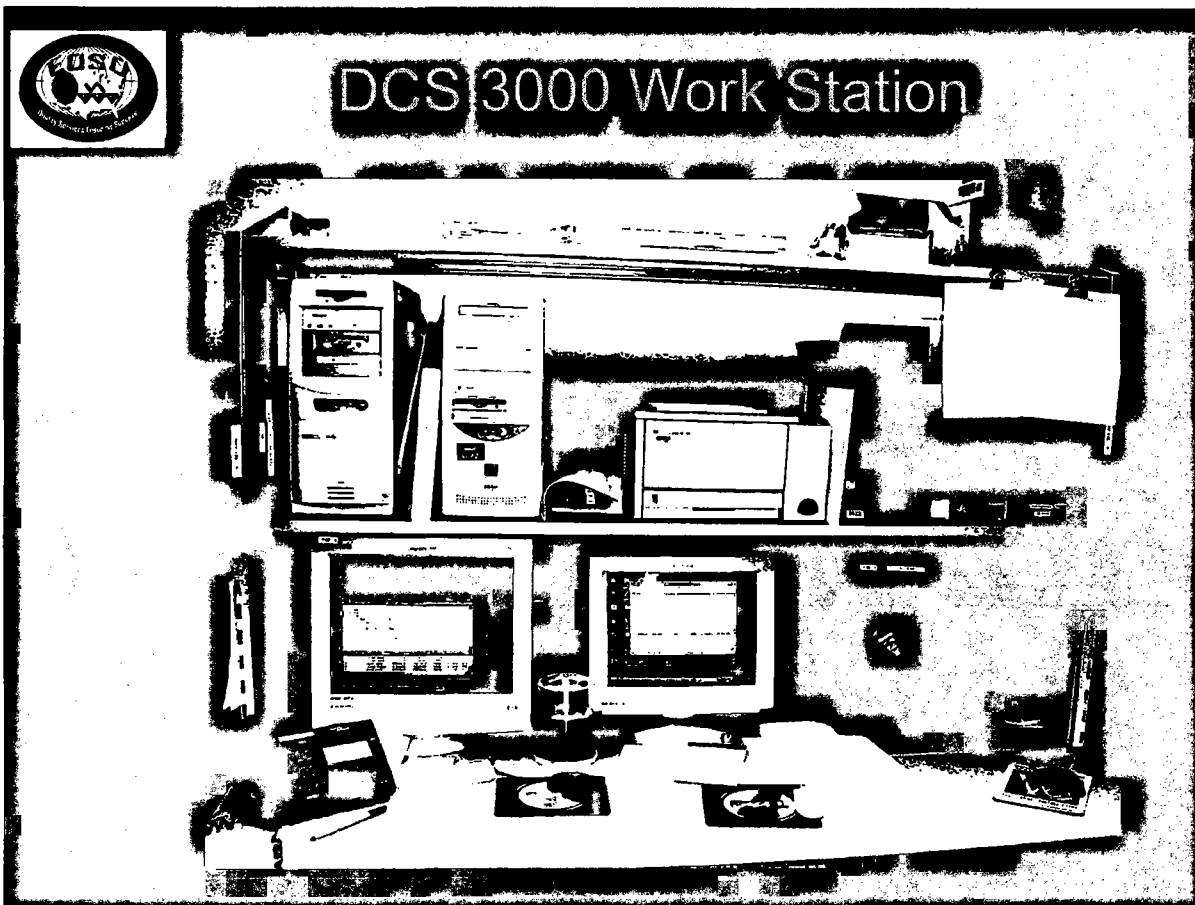
Space Planning

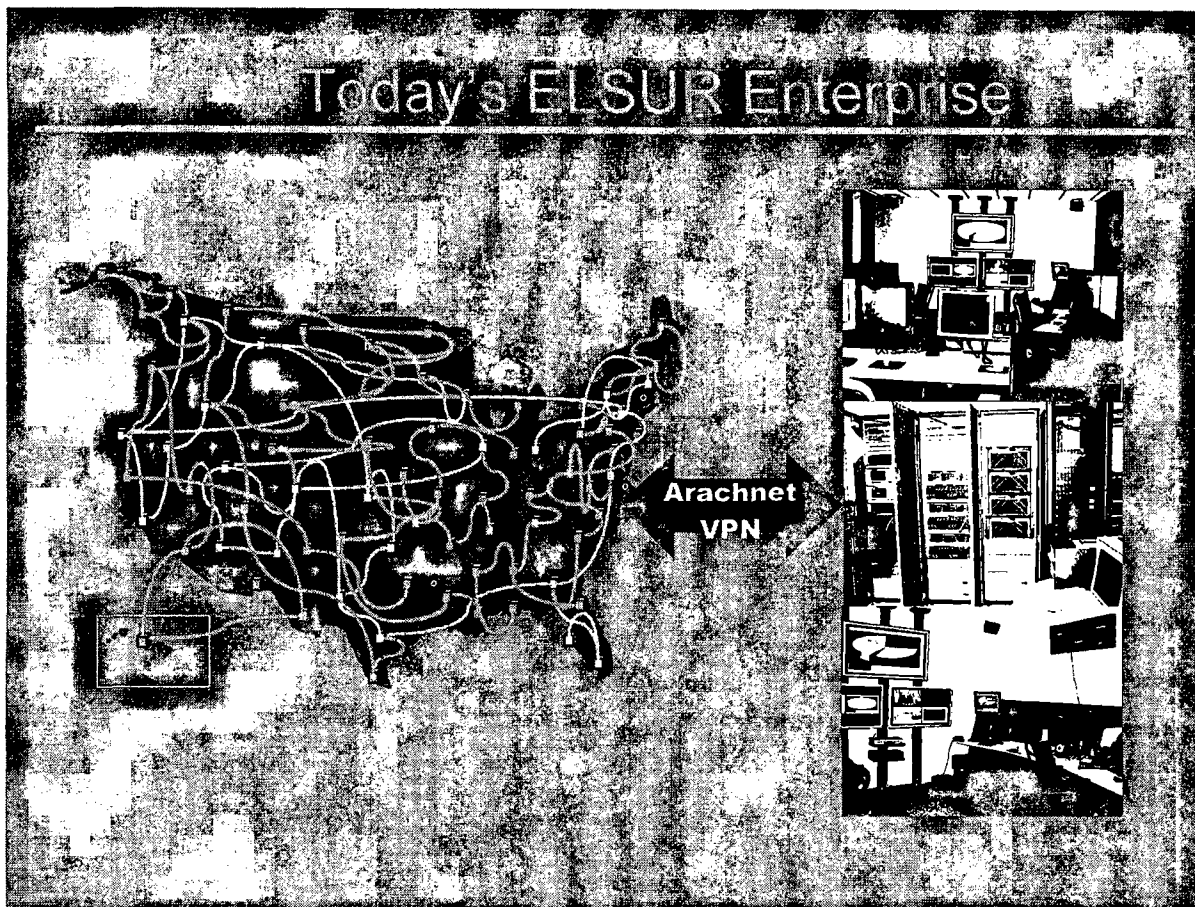
b2
b7E

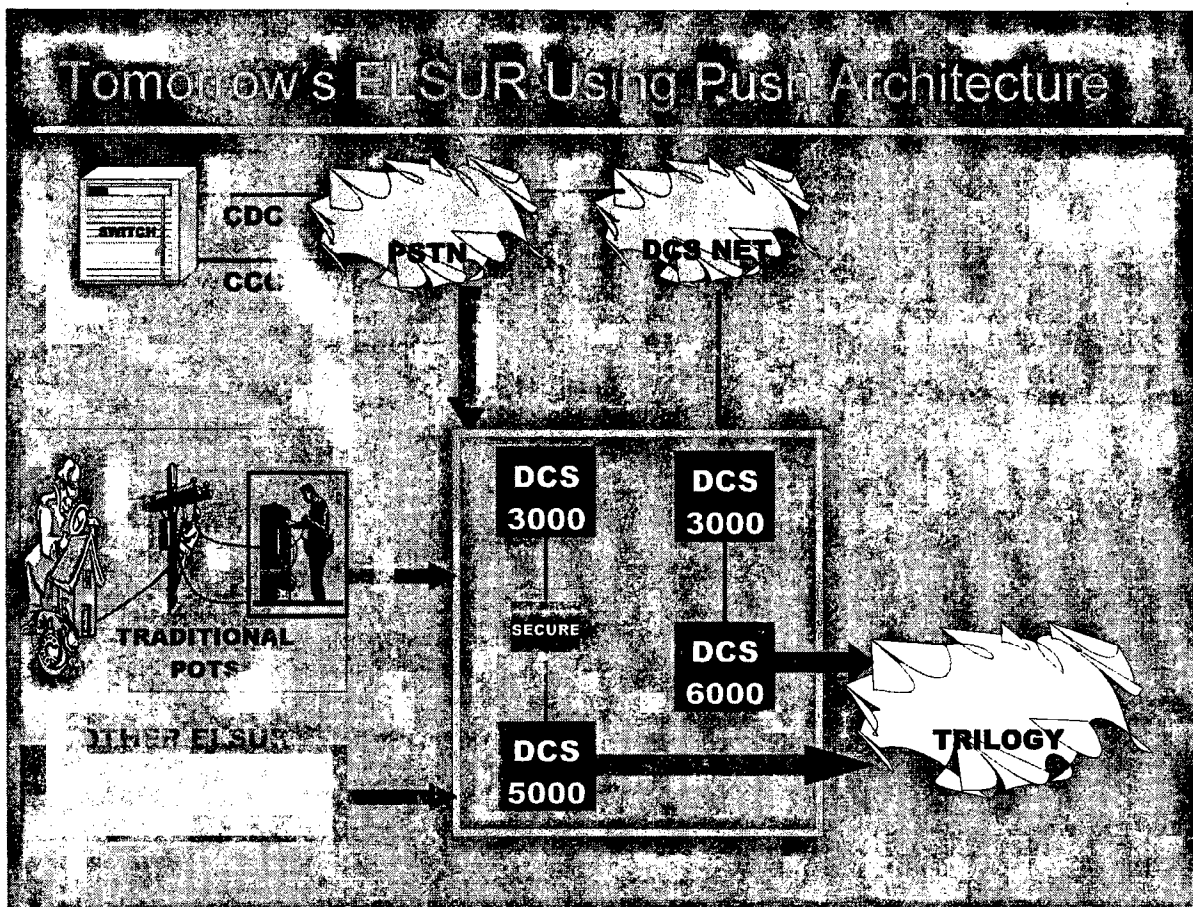


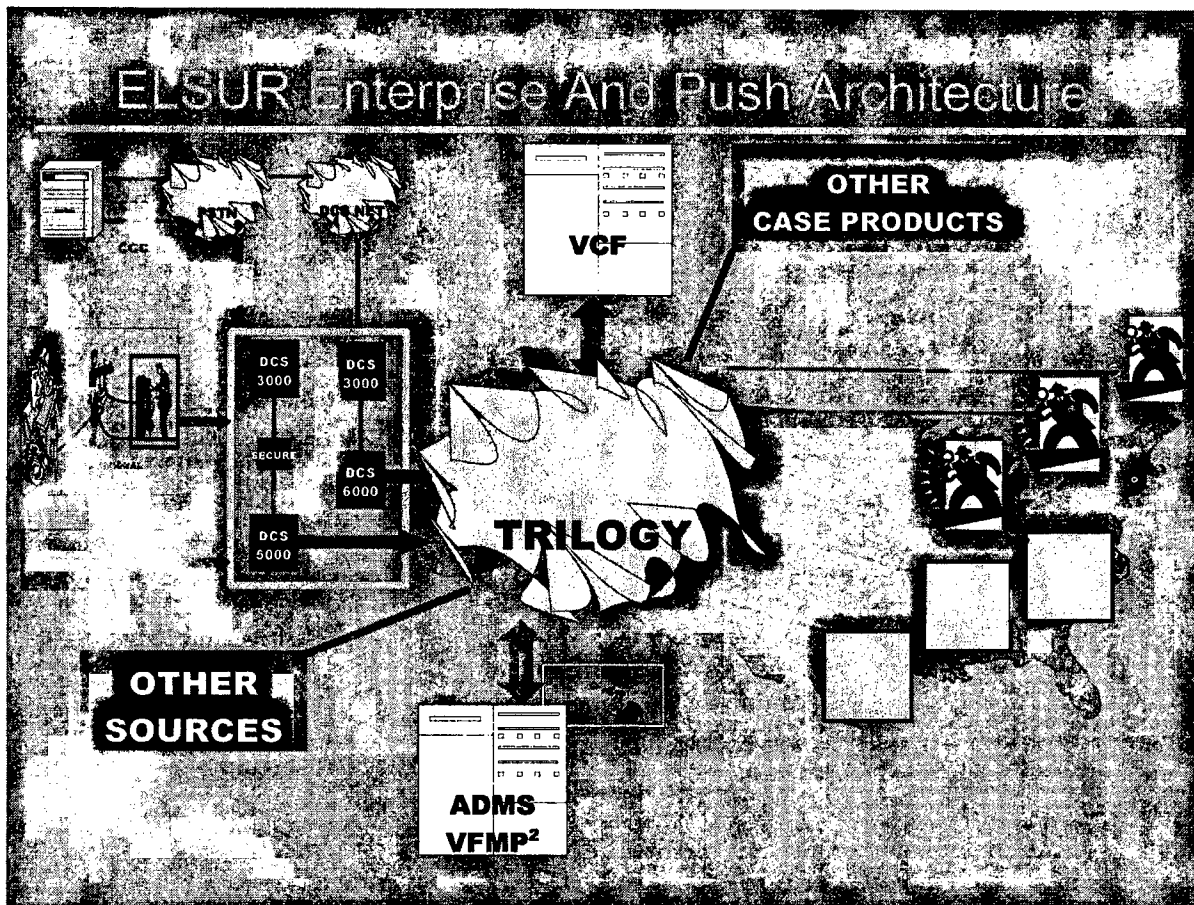
Digital Collection System













TICTU South Conference

Telecommunications Intercept and Collection Technology Unit



[REDACTED] ssues

The "One Way Push"



[REDACTED] EE

b2
b6
b7C
b7E



TICTU South Conference *The "One Way Push"*



b2
b7E

**Task Force formed after 9/11 to ensure
security needs of FBI defined and
implemented**

**Includes testing, certification and
accreditation**

**Encompasses all ELSUR equipment and
DCSNet**



TICTU South Conference

The "One Way Push"



Certification & Accreditation Status

DCS-3000

APPROVED

DCS-5000

IN PROGRESS

DCS-6000

APPROVED

Arachnet

IN PROGRESS

DCSNet

APPROVED

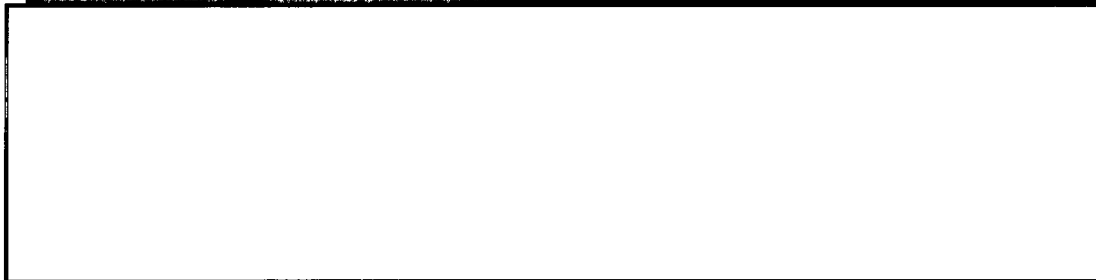


TICTU South Conference

The "One Way Push"



Configuration for Criminal Cases



b2
b7E

Call Content (CCC) Call Data (CDC)

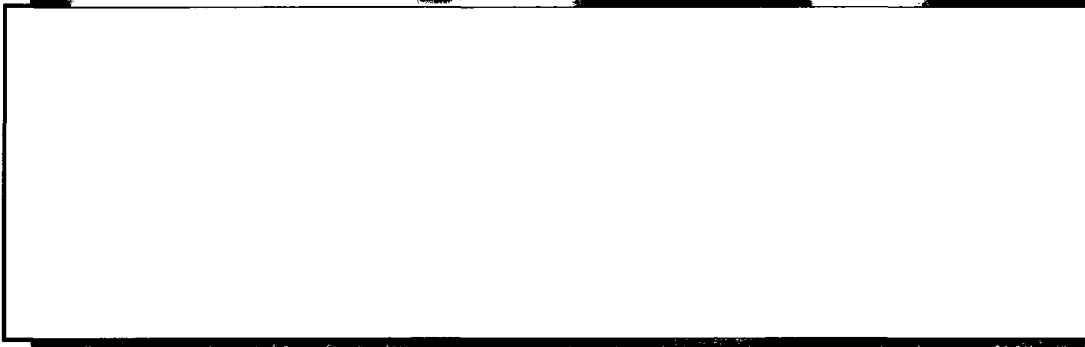


TICTU South Conference

The "One Way Push"

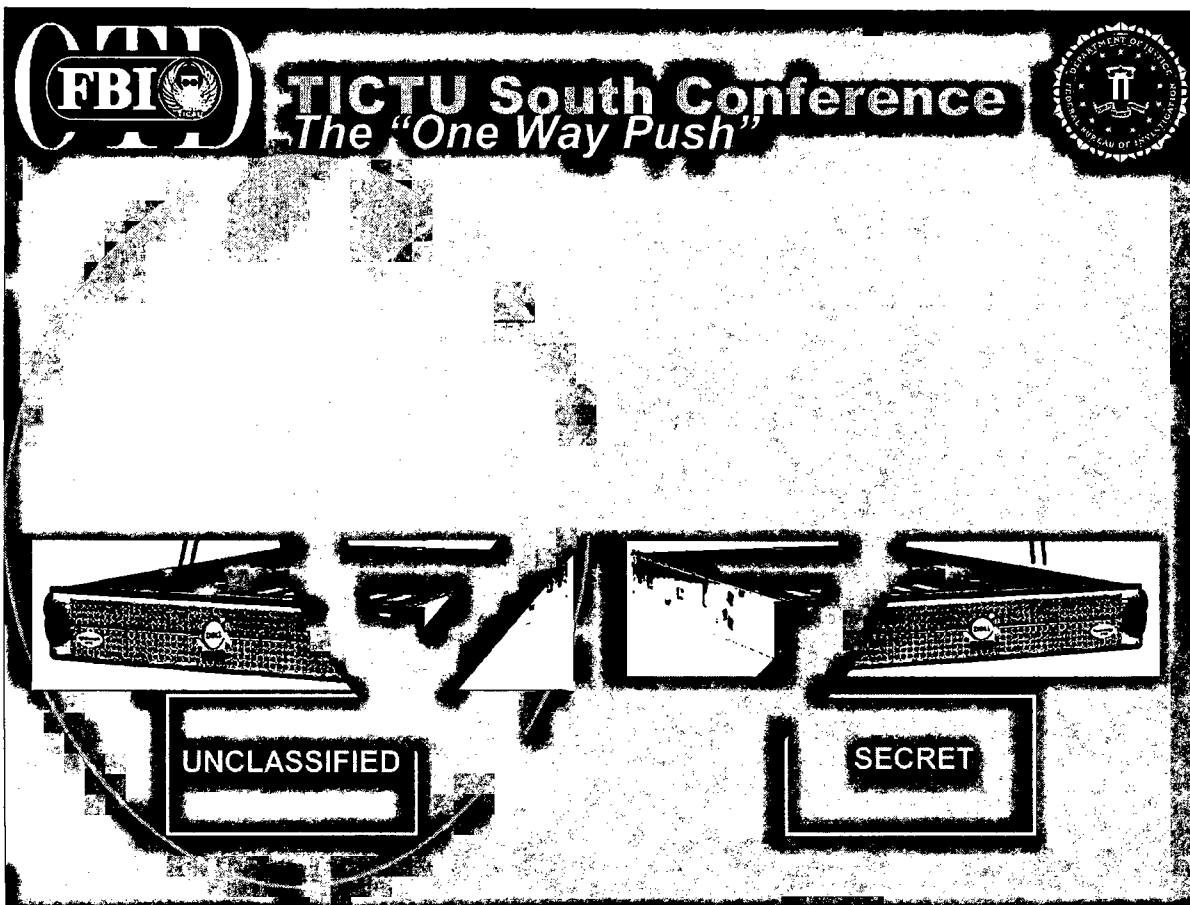


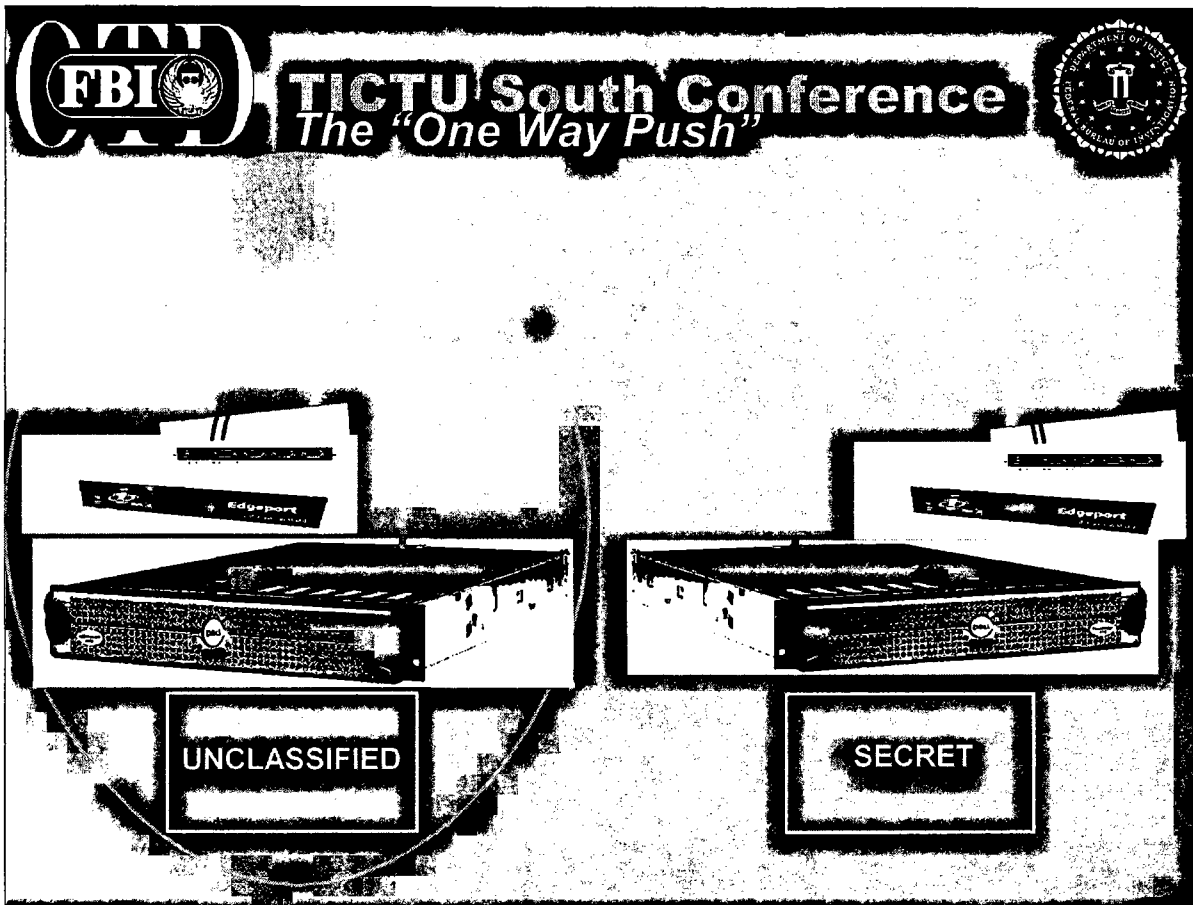
Configuration for FISA Cases



b2
b7E

Call Content (CCC) ■ Call Data (CDC)









TICTU South Conference

The "One Way Push"

Configuration for FISA Cases



Call Content (CCC) Call Data (CDC)



TICTU South Conference *The "One Way Push"*



Deployment Update

Twenty-eight systems deployed to field

Twenty systems installed – not activated

Next generation servers ordered



TICTU South Conference *The "One Way Push"*



Field Test Update

Live testing underway in Chicago, Salt Lake City and Tampa

Proceeding with caution to ensure that full package can be delivered to field

Risk Management – key element in deployment



TICTU South Conference

The "One Way Push"



ERF Test Update



b2
b7E

TIU management – multiple TIUs

Next Generation Servers -

PowerEdge 2850; OS Win 2003 Server



TICTU South Conference

The "One Way Push"



Test Successes



**Intercept method: 98% dial-ups using
loop-closure method, approx. 30 lines**

b2
b7E



TICU South Conference *The "One Way Push"*

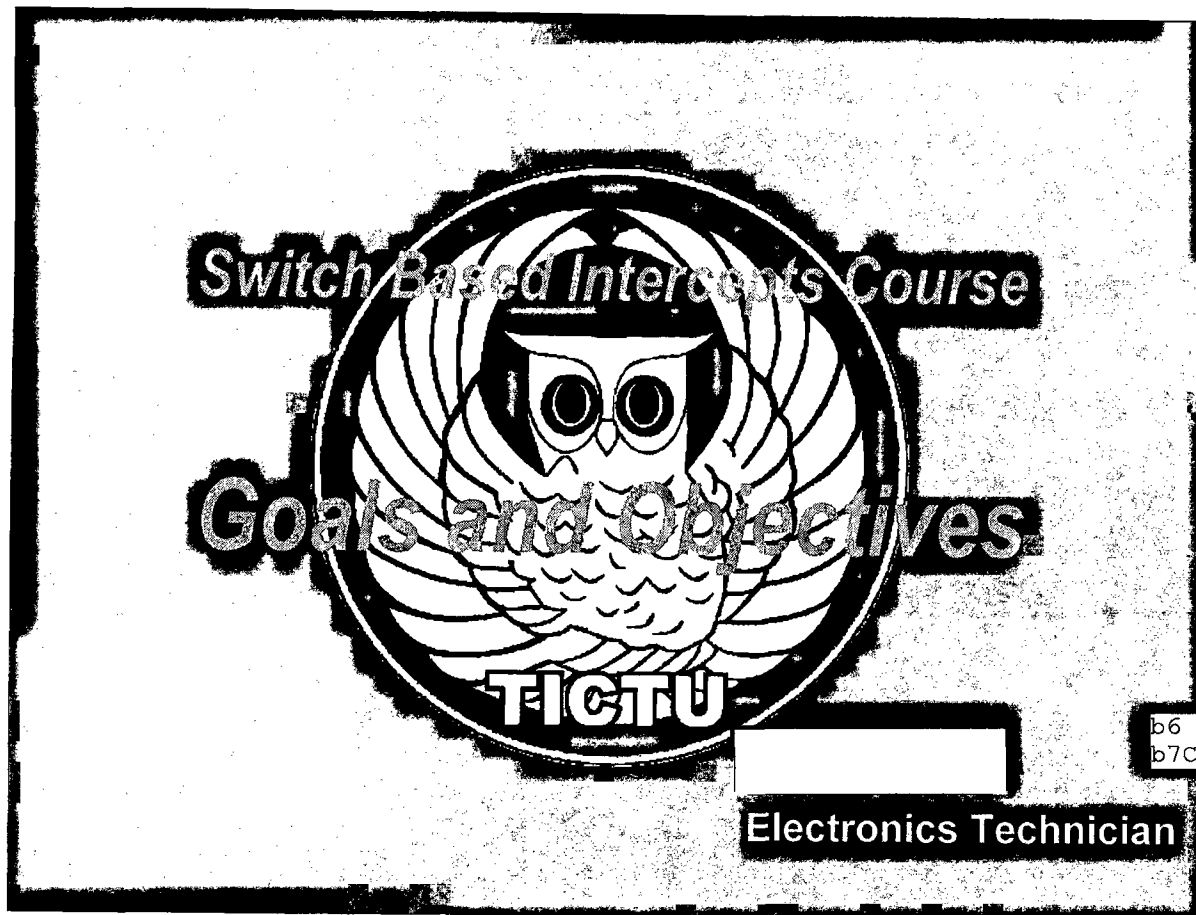


Test Issues

Server system messages and erroneous sessions (data only)

TA Uploads

TIU Parser errors with CALEA data



pg-1

ALL INFORMATION CONTAINED
HEREIN IS UNCLASSIFIED
DATE 05-30-2007 BY 65179dmh/ksr/maj

Purpose

The course was designed to educate technically trained agents to implement and maintain switch-based telecommunications intercepts for their field divisions

Background

- The Telecommunications Access Group is responsible for the development, deployment and support of access for CALEA intercepts
- DCS-3000 is the current interim solution used by the FBI
- The FBI is investigating other options from outside vendors

Course Goals and Objectives

- **Educate TTAs on:**

- Technologies utilized, FBI equipment needed, and connection information for service providers

- DCS-3000 application hardware, operating system, and infrastructure needed for implementation and maintenance

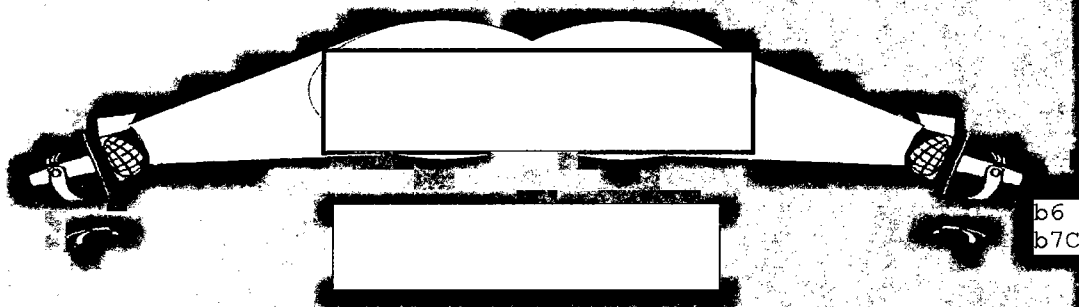
- Current issues affecting ELSUR operations

- **Equip "graduates" to implement and maintain switch based intercepts in their field divisions**



Switch Based Intercepts Course

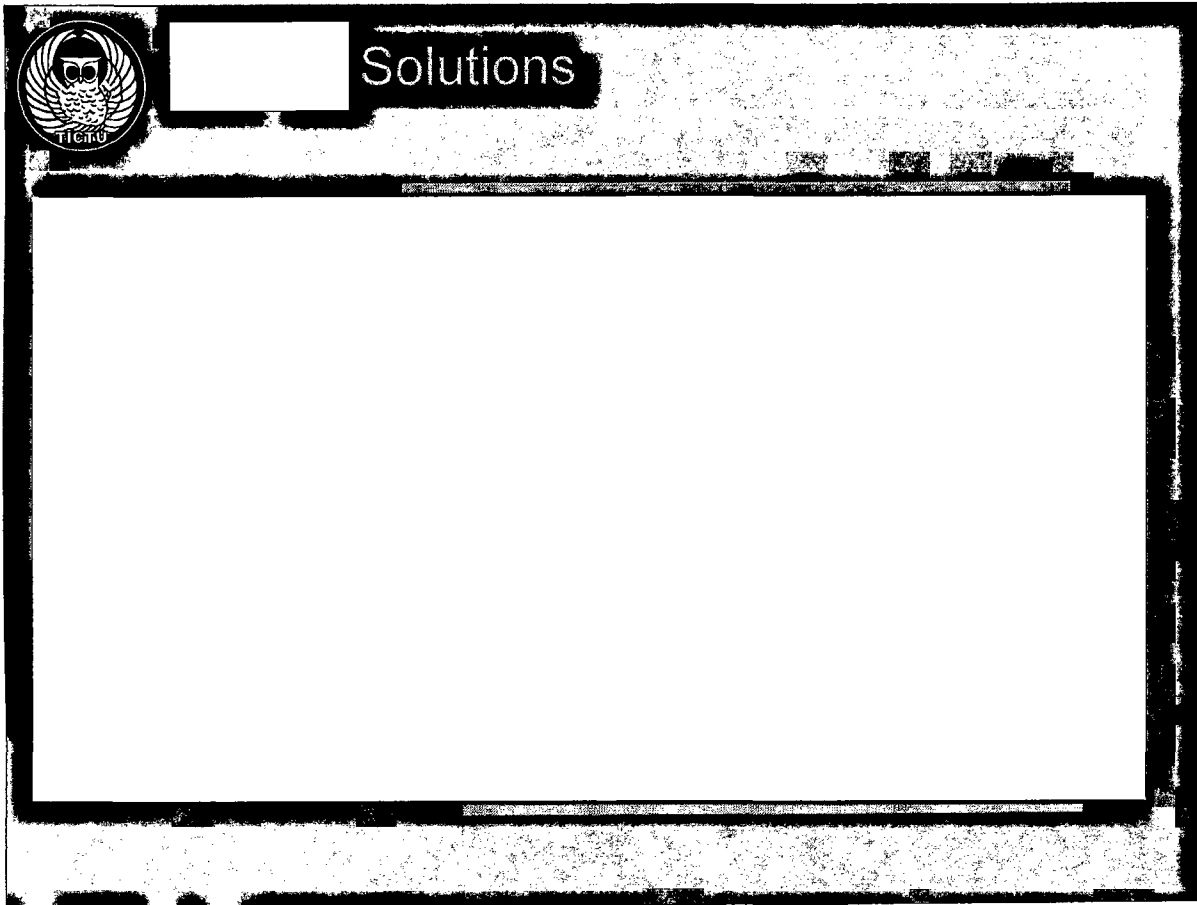
**Spotlight
on**



b2
b7E

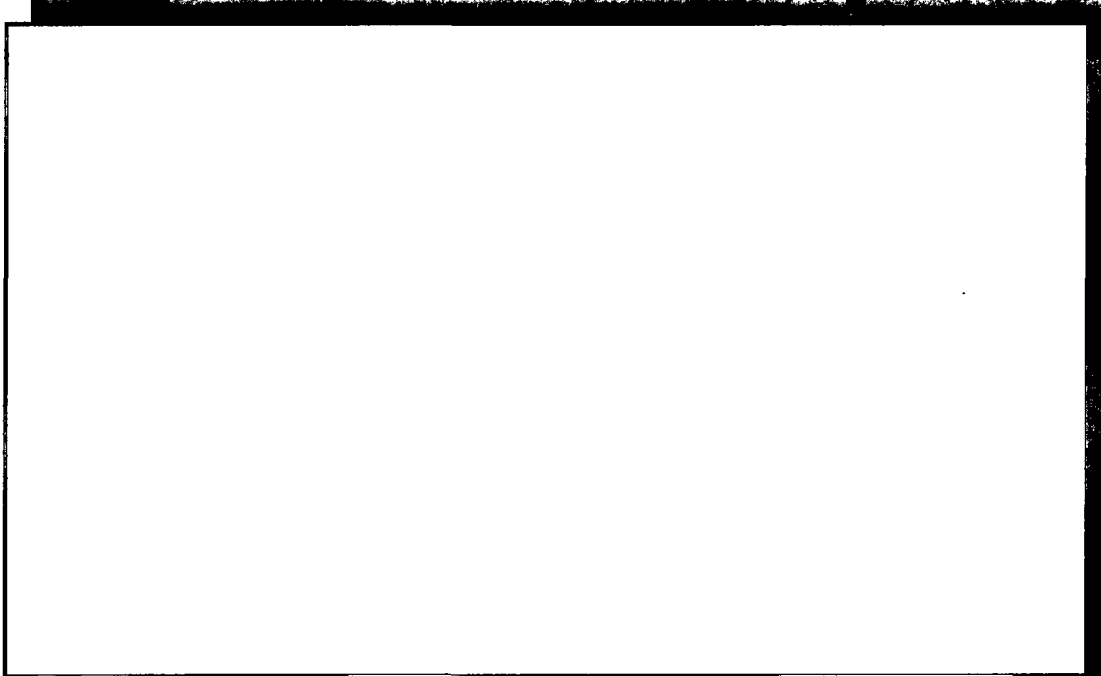
pg-1

ALL INFORMATION CONTAINED
HEREIN IS UNCLASSIFIED
DATE 05-30-2007 BY 65179dmh/ksr/maj





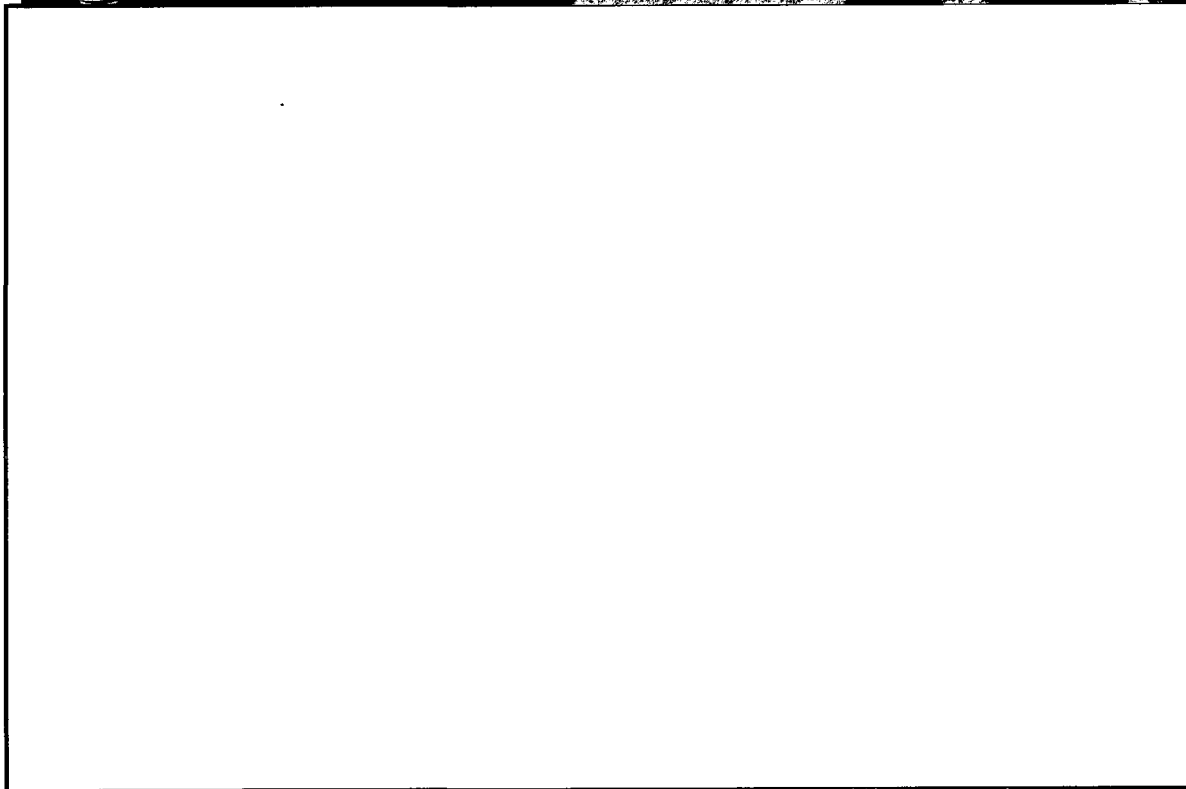
Solutions



b2
b7E



Solutions





Solutions

pg-5

b2
b7E